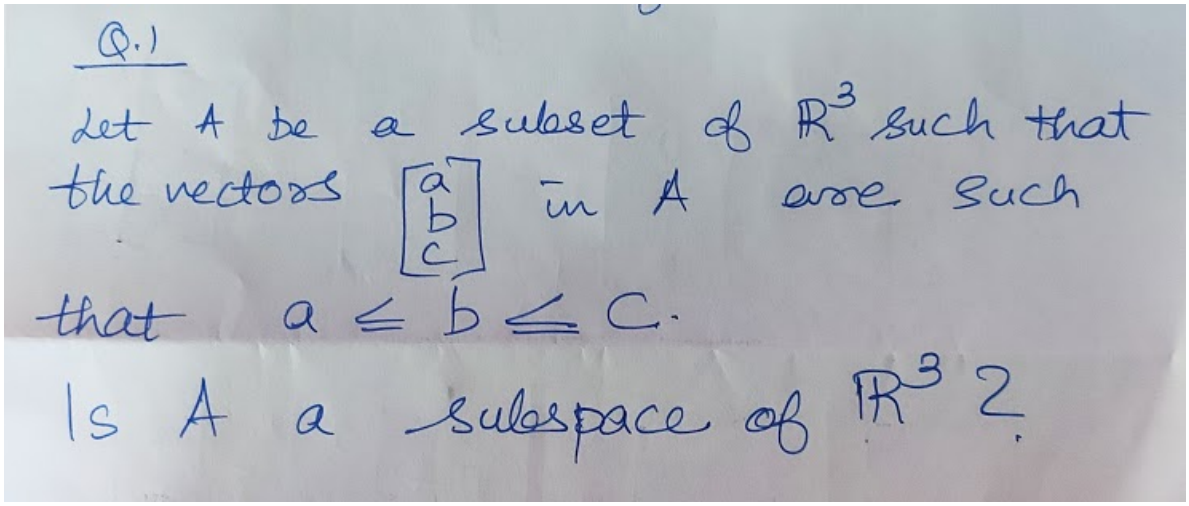
LAQUIZ02

Total points 7/10

Subject: Linear Algebra and Ordinary Differential Equations
Batch: B.Tech CS/CS-AI/IT 2020
Semester: II
Date: 08/05/2021
Time 10:00-10.30am
Answer all questions. Marks will be awarded for the correct answer.

✗ Q.1 *

0/1

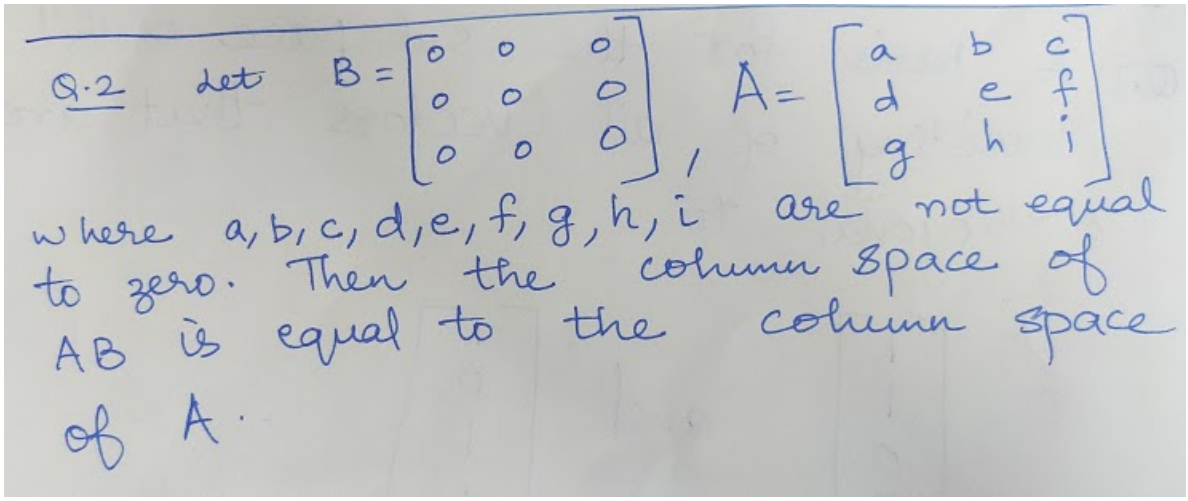


- (●) Yes ✗
- ( ) No

Correct answer

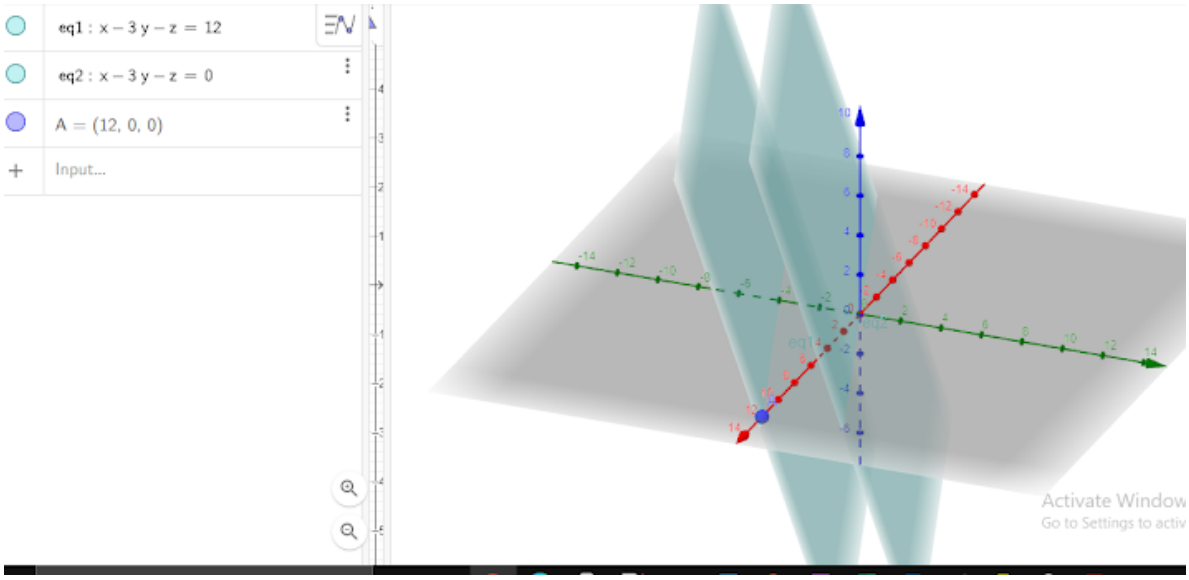
- (●) No

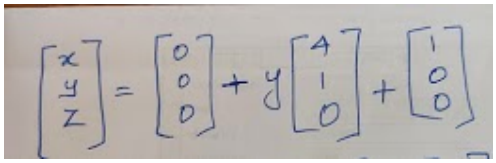
✓ Q.2 * 1/1



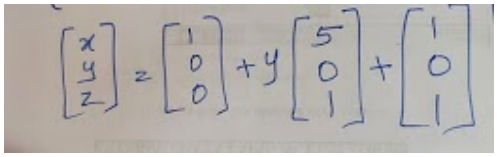
- ○ True
- ◉ False ✓

✓ Q.3 Observe the figure carefully * 1/1

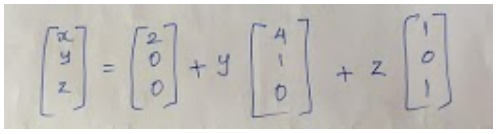




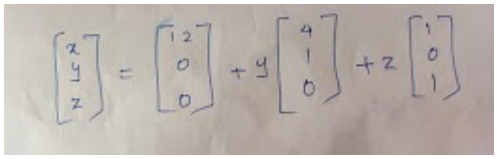
Option 1



Option 2



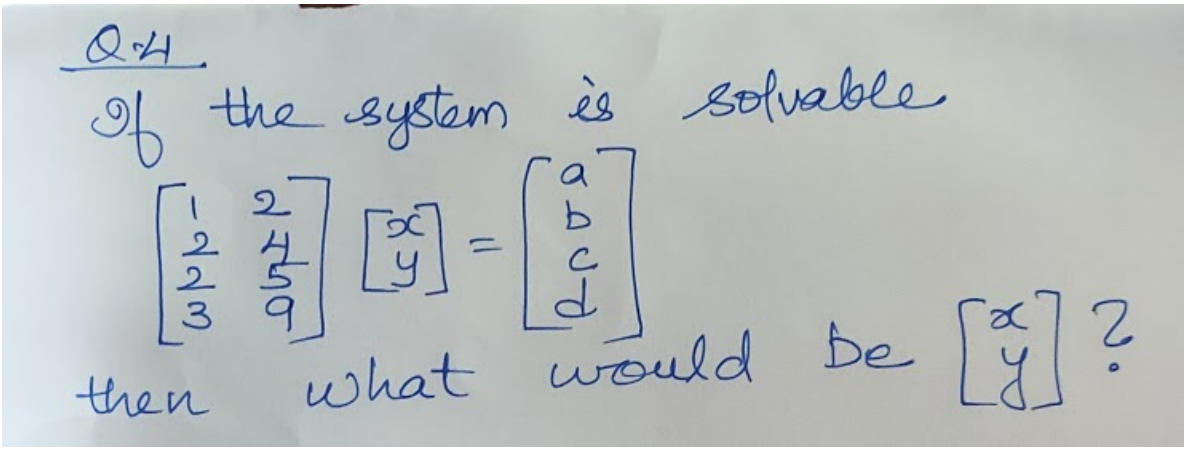
Option 3

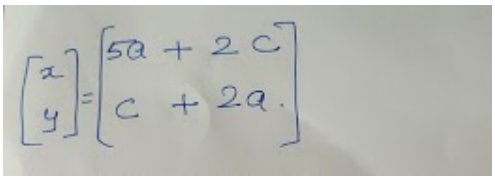


Option 4 ✓

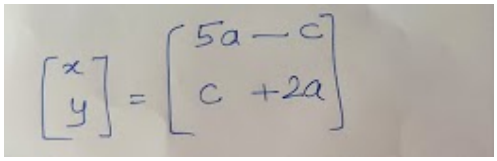
✓ Q.4 *

1/1

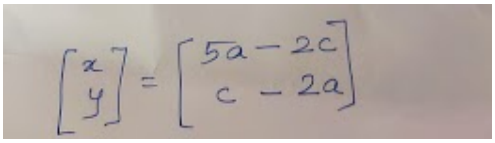




○ Option 1



○ Option 2

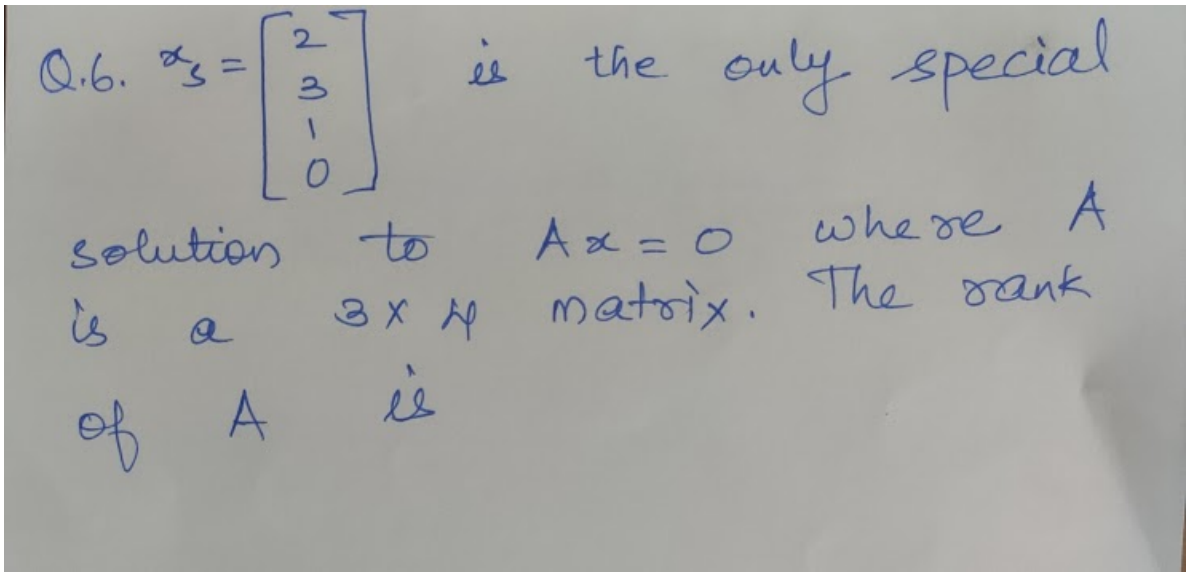


◉ Option 3 ✓

✓ Q.5 If a 3x5 matrix has the largest possible rank then its column space is * 1/1

- ○ the five dimensional space
- ○ the four dimensional space
- ◉ the three dimensional space ✓
- ○ the two dimensional space
- ○ the one dimensional space

✗ Q.6 * 0/1

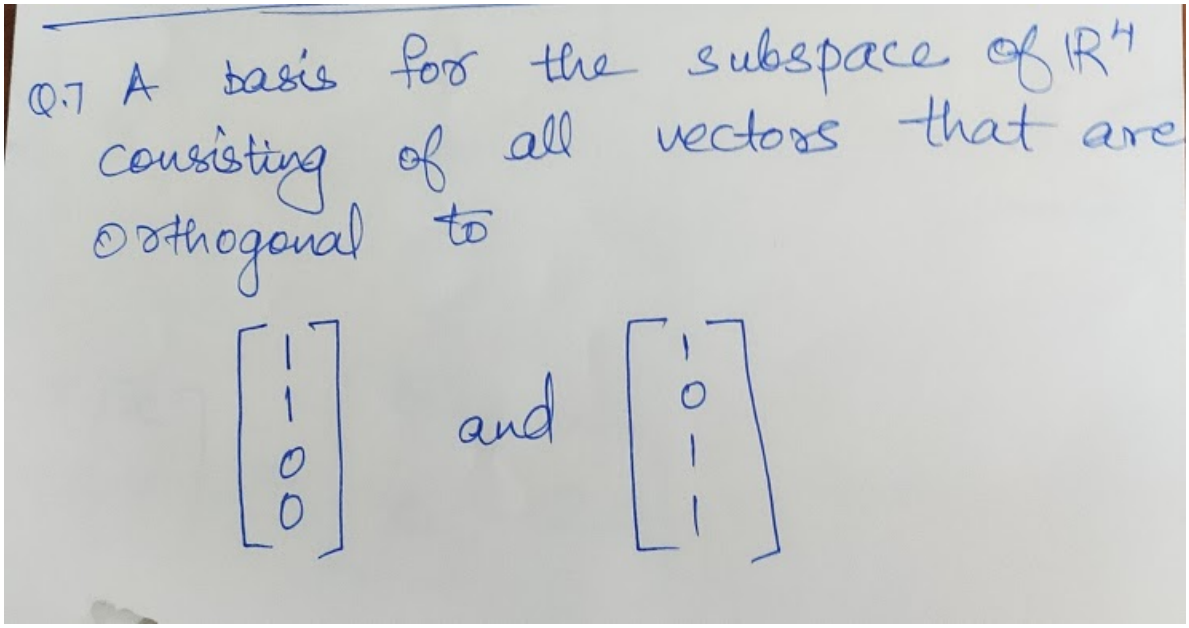


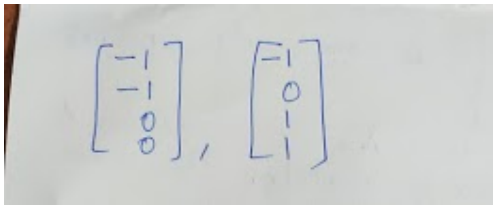
- ○ 4
- ◉ 3 ✗
- ○ 2
- ○ 1
- ○ 0

Correct answer

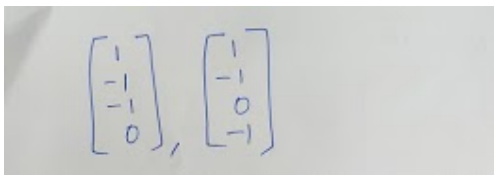
- ◉ 1

✓ Q.7 * 1/1

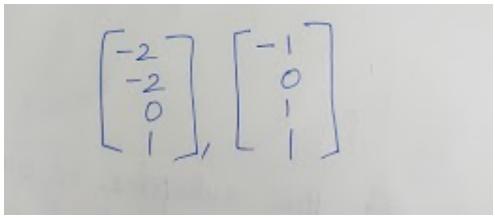




Option 1

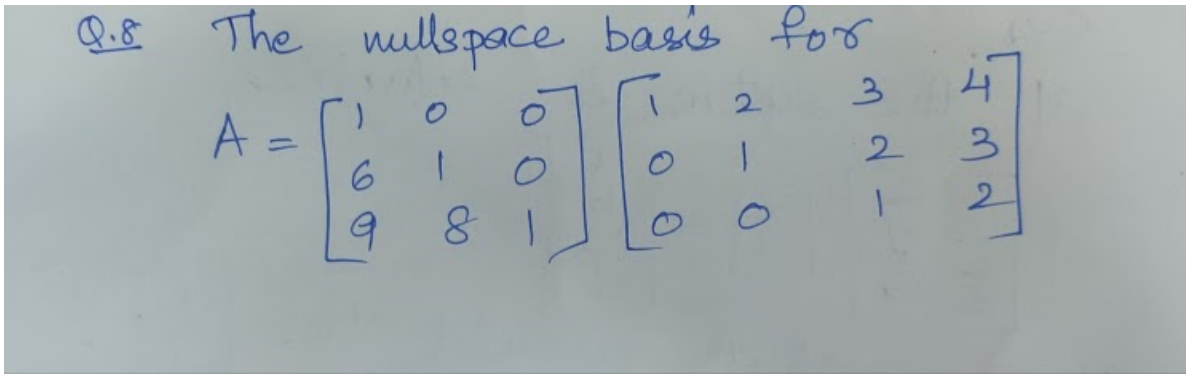


Option 2 ✓



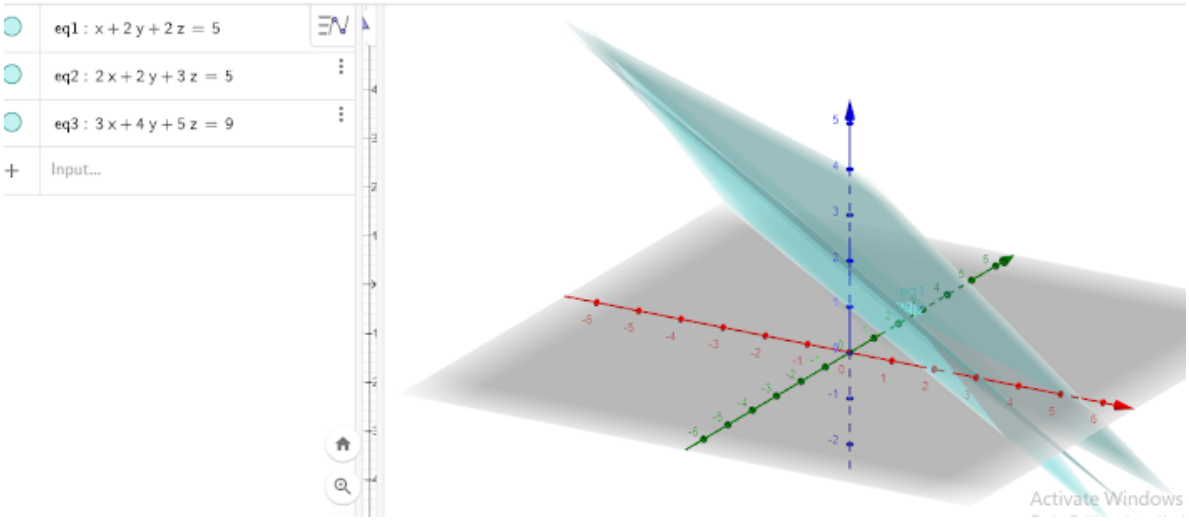
Option 3

✓ Q.8 * 1/1



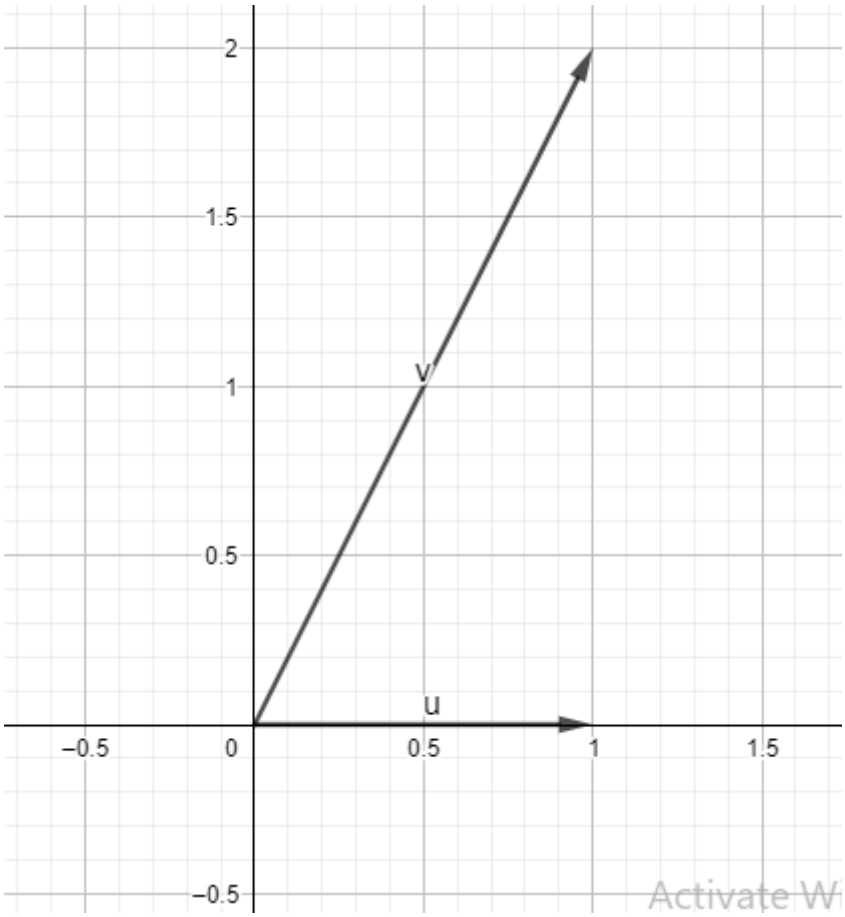
- ○ (0,1,2,3)
- ○ (0,0,1,2)
- ○ (0,-1,2,-1)
- ◉ (0,1,-2,1) ✓

✓ Q.9. A solution to the given system of equations is * 1/1



- ○ (1,1,0)
- ○ (1,2,3)
- ○ (1,0.5,0)
- ◉ No solution ✓
- ○ Unique solution
- ○ Infinite number of solutions

✗ Q.10. Project u onto v with projection matrix A, then project the result back onto u with a projection matrix B. The product of these projections AB is a projection. * 0/1



- (●) True ✗
- ( ) False

Correct answer

- (●) False